INVENTOR:LASZLO HARS
Attorney Docket: US 020051
ON-LINE RANDOMNESS TEST THROUGH OVERLAPPING WORD COUNTS
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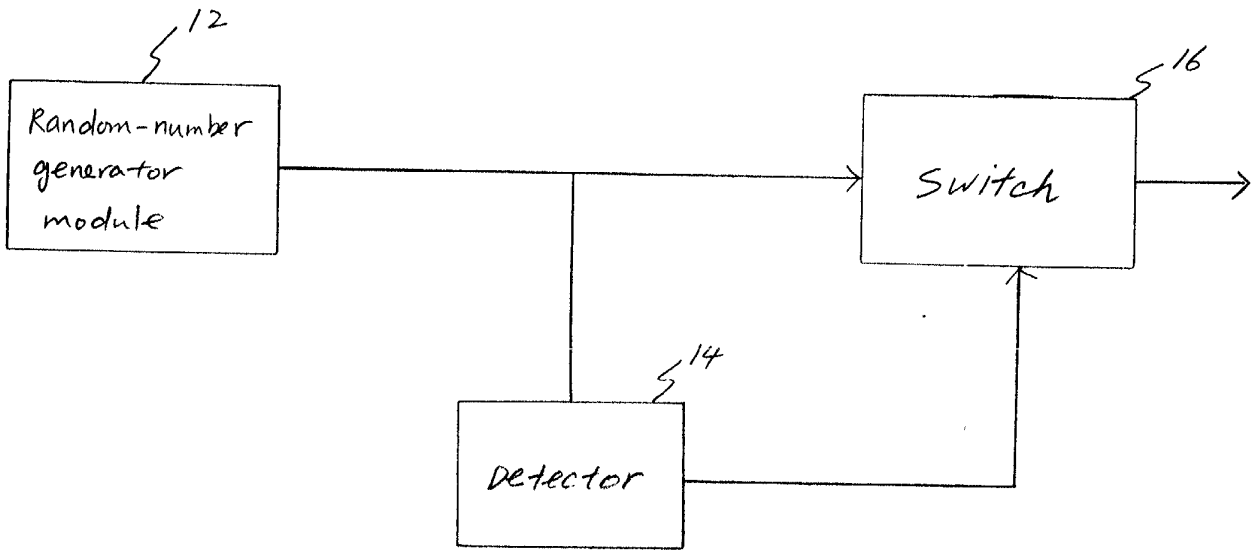

FIG. 1

[0, 1, 1, 0, 1, 0 - - - - - 0, 1]

3 = 0, 1, 1

6 = 1, 1, 0

5 = 1, 0, 1

} overlapping count

A	t_1	t_2	t_3
a_0	0	0	0
a_1	0	0	0
a_2	0	0	0
a_3	1	0	0
a_4	0	0	0
a_5	0	0	1
a_6	0	1	0
a_7	0	0	0

FIG. 2

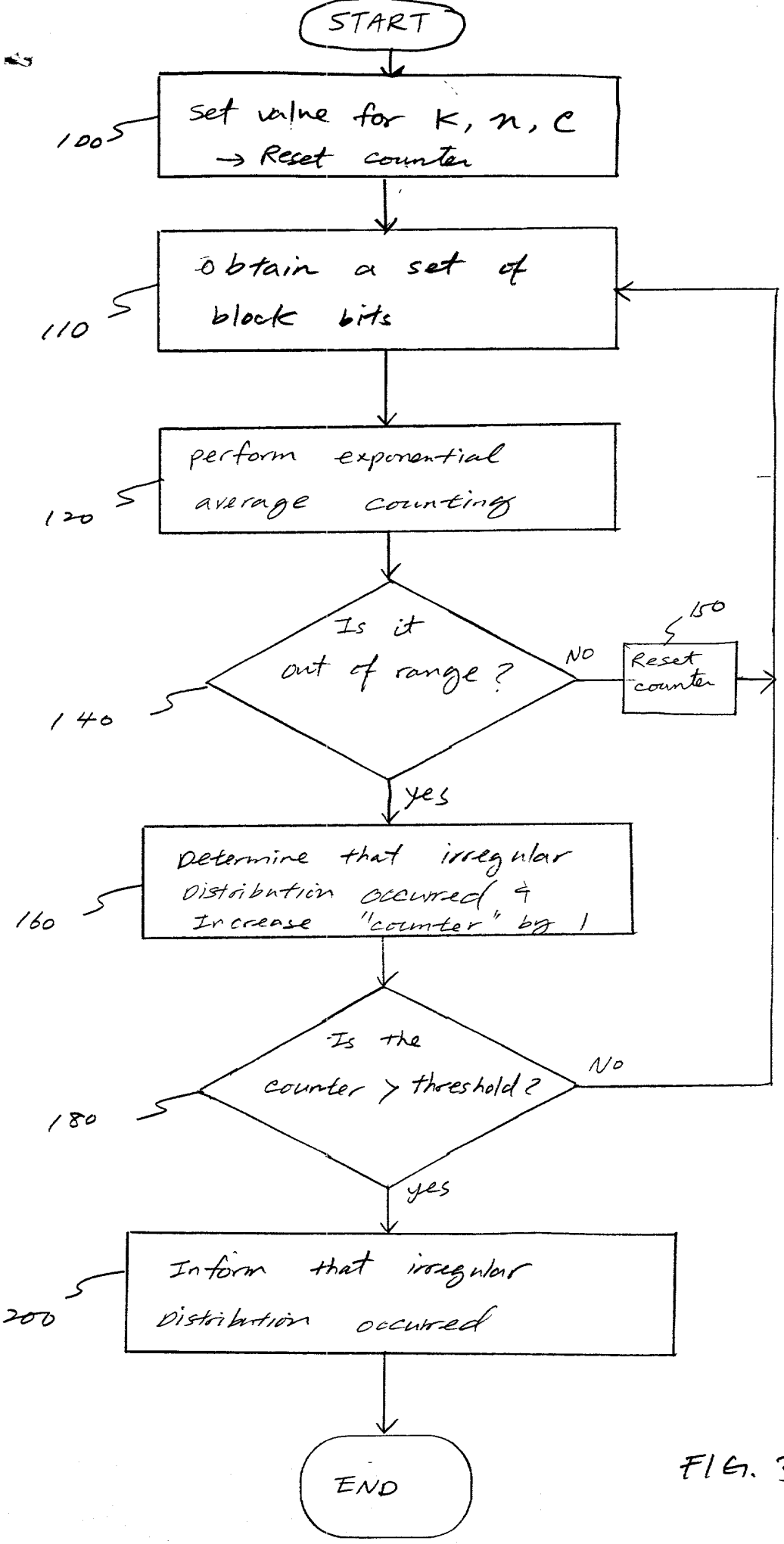
START
Set value for K, n, C
→ Reset counter
100
Obtain a set of block bits
110
perform exponential average counting
120
Is it out of range?
140
NO
150
Reset counter
yes
Determine that irregular distribution occured & Increase "counter" by 1
160
Is the counter > threshold?
180
No
yes
Inform that irregular distribution occured
200
END

FIG. 3